FIG.1

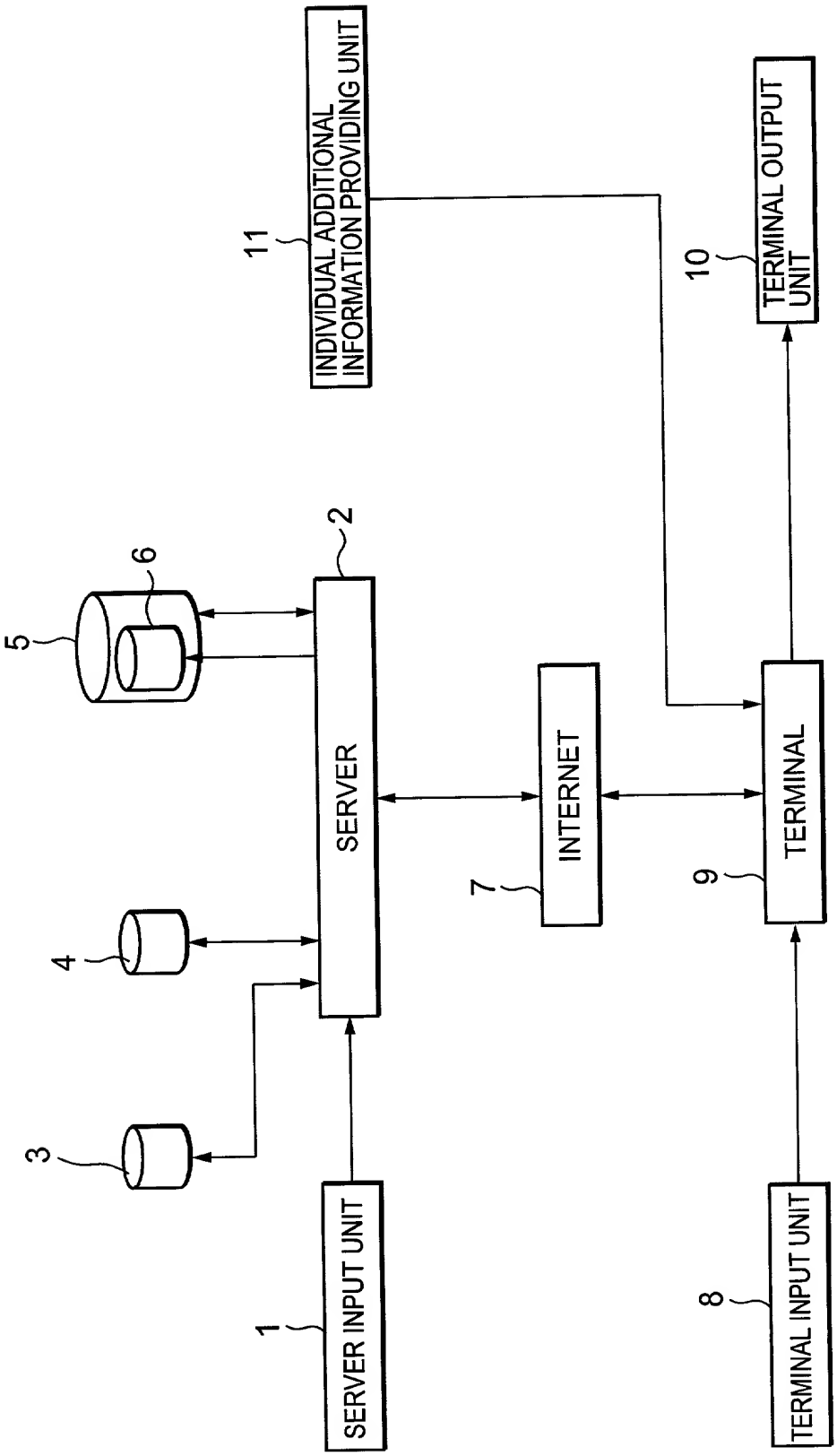

SERVER INPUT UNIT
1
3
4
SERVER
2
5
6
INTERNET
7
TERMINAL INPUT UNIT
8
TERMINAL
9
TERMINAL OUTPUT UNIT
10
INDIVIDUAL ADDITIONAL INFORMATION PROVIDING UNIT
11

FIG.2

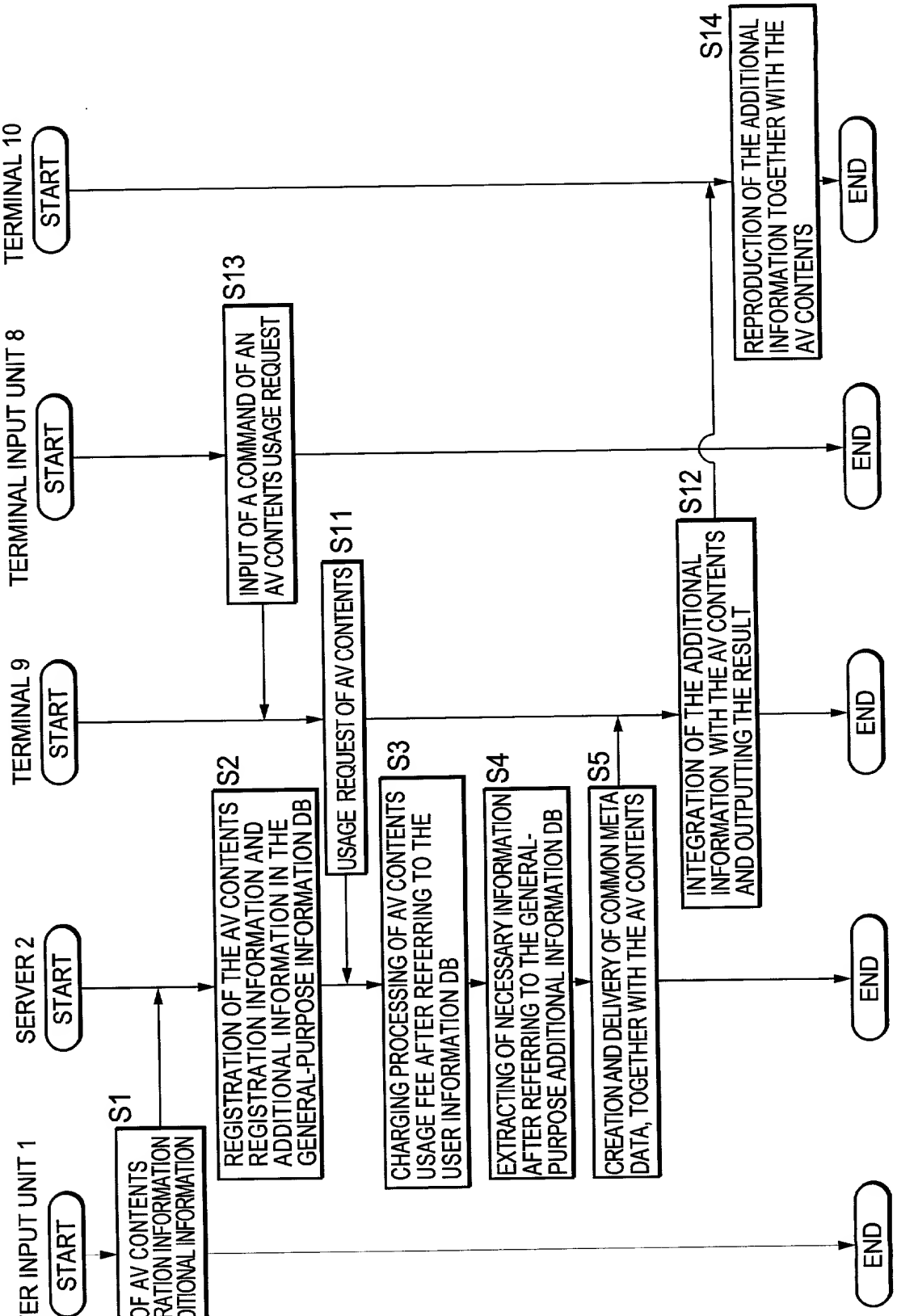

SERVER INPUT UNIT 1
START
INPUT OF AV CONTENTS REGISTRATION INFORMATION AND ADDITIONAL INFORMATION
S1
END
SERVER 2
START
REGISTRATION OF THE AV CONTENTS REGISTRATION INFORMATION AND ADDITIONAL INFORMATION IN THE GENERAL-PURPOSE INFORMATION DB
S2
END
TERMINAL 9
START
USAGE REQUEST OF AV CONTENTS
S11
CHARGING PROCESSING OF AV CONTENTS USAGE FEE AFTER REFERRING TO THE USER INFORMATION DB
S3
EXTRACTING OF NECESSARY INFORMATION AFTER REFERRING TO THE GENERAL-PURPOSE ADDITIONAL INFORMATION DB
S4
CREATION AND DELIVERY OF COMMON META DATA, TOGETHER WITH THE AV CONTENTS
S5
END
TERMINAL INPUT UNIT 8
START
INPUT OF A COMMAND OF AN AV CONTENTS USAGE REQUEST
S13
END
INTEGRATION OF THE ADDITIONAL INFORMATION WITH THE AV CONTENTS AND OUTPUTTING THE RESULT
S12
END
TERMINAL 10
START
REPRODUCTION OF THE ADDITIONAL INFORMATION TOGETHER WITH THE AV CONTENTS
S14
END

FIG.3

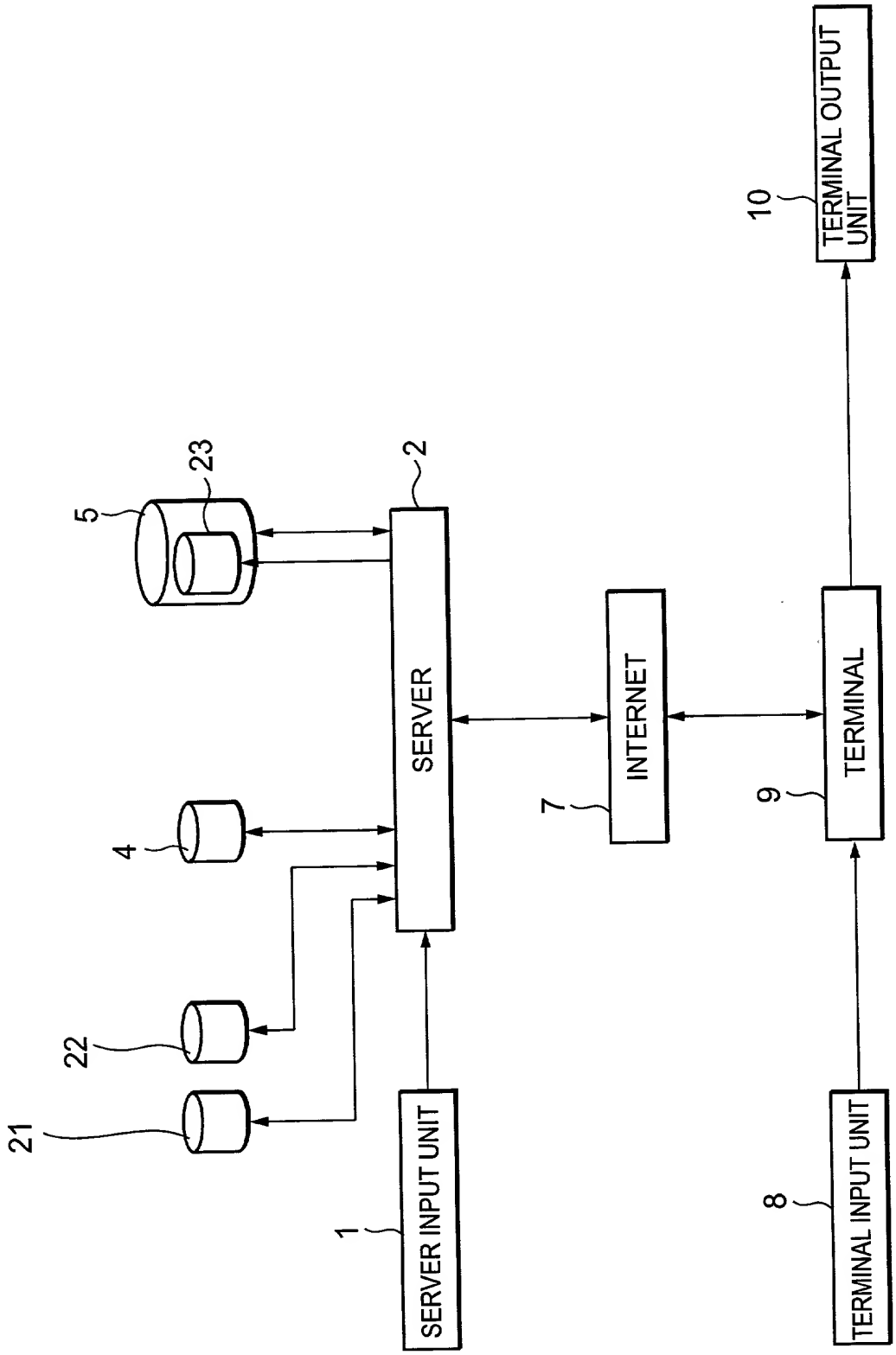

SERVER INPUT UNIT
1
21
22
4
SERVER
2
5
23
INTERNET
7
TERMINAL
9
TERMINAL INPUT UNIT
8
TERMINAL OUTPUT UNIT
10

FIG.4

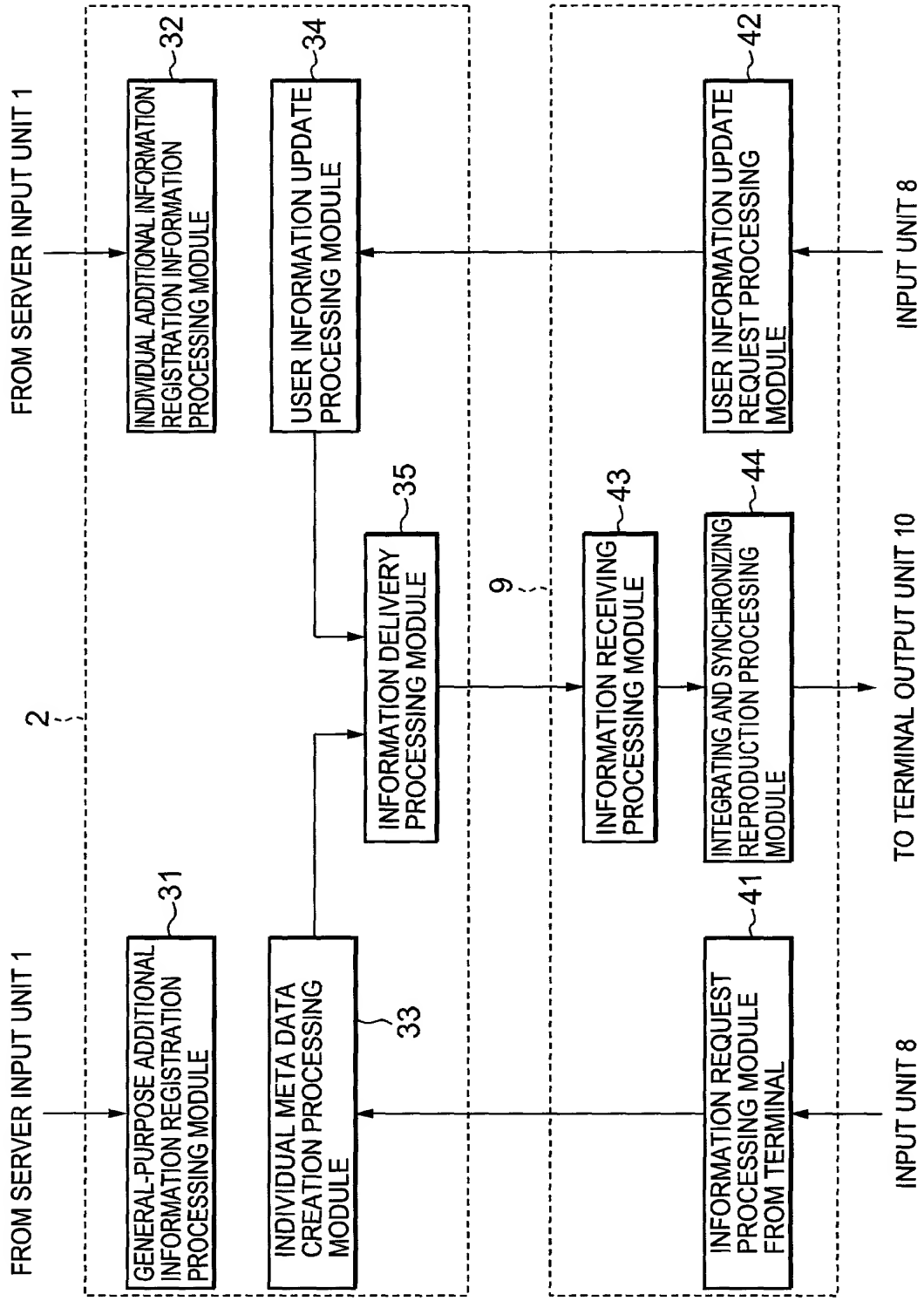

FROM SERVER INPUT UNIT 1
FROM SERVER INPUT UNIT 1
2
GENERAL-PURPOSE ADDITIONAL INFORMATION REGISTRATION PROCESSING MODULE
31
INDIVIDUAL META DATA CREATION PROCESSING MODULE
33
INDIVIDUAL ADDITIONAL INFORMATION REGISTRATION INFORMATION PROCESSING MODULE
32
USER INFORMATION UPDATE PROCESSING MODULE
34
INFORMATION DELIVERY PROCESSING MODULE
35
9
INFORMATION RECEIVING PROCESSING MODULE
43
INTEGRATING AND SYNCHRONIZING REPRODUCTION PROCESSING MODULE
44
INFORMATION REQUEST PROCESSING MODULE FROM TERMINAL
41
USER INFORMATION UPDATE REQUEST PROCESSING MODULE
42
INPUT UNIT 8
INPUT UNIT 8
TO TERMINAL OUTPUT UNIT 10

FIG.5

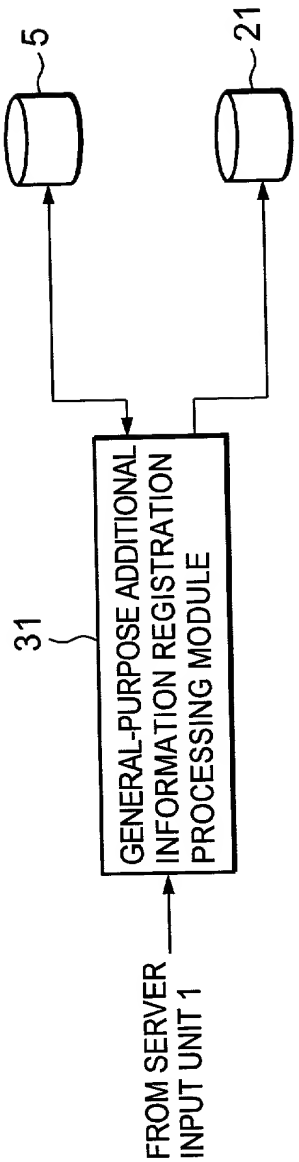

5
21
31
GENERAL-PURPOSE ADDITIONAL INFORMATION REGISTRATION PROCESSING MODULE
FROM SERVER INPUT UNIT 1

FIG.6

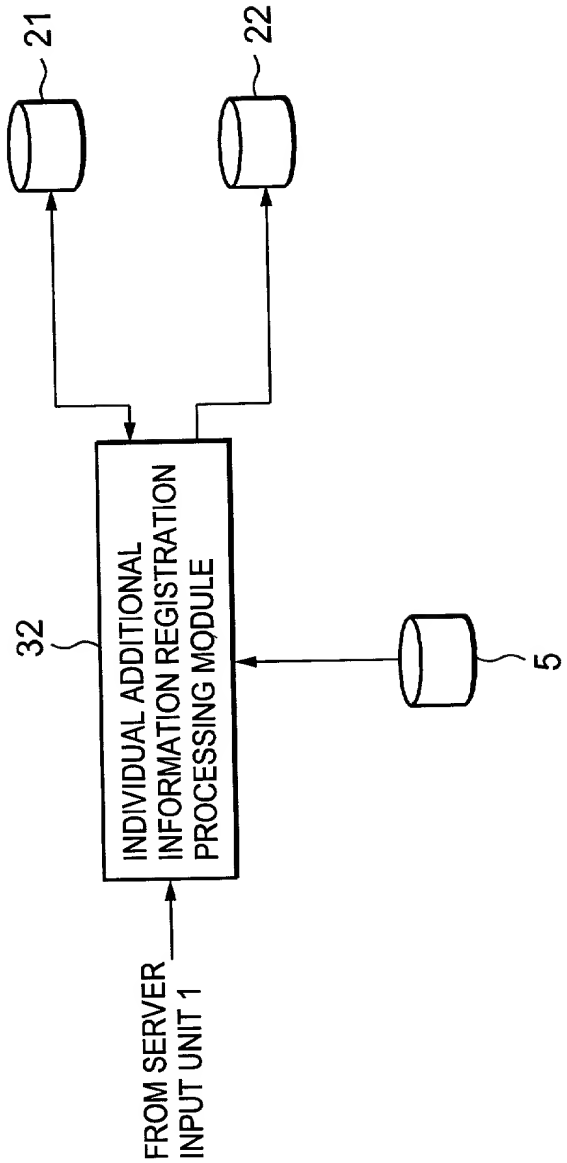

21
22
32
INDIVIDUAL ADDITIONAL INFORMATION REGISTRATION PROCESSING MODULE
5
FROM SERVER INPUT UNIT 1

FIG.7

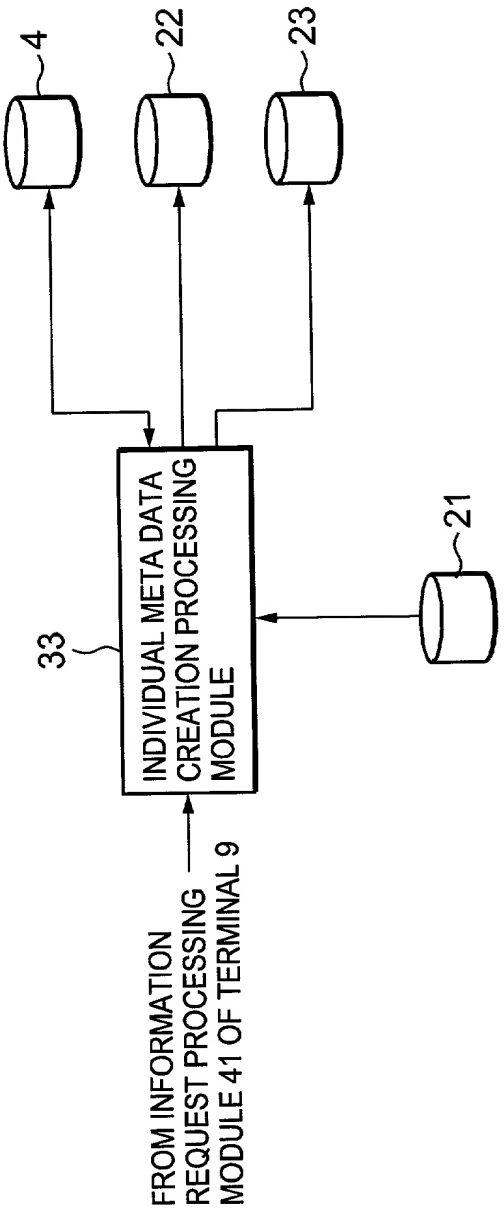

4
22
23
21
33
INDIVIDUAL META DATA CREATION PROCESSING MODULE
FROM INFORMATION REQUEST PROCESSING MODULE 41 OF TERMINAL 9

FIG.8

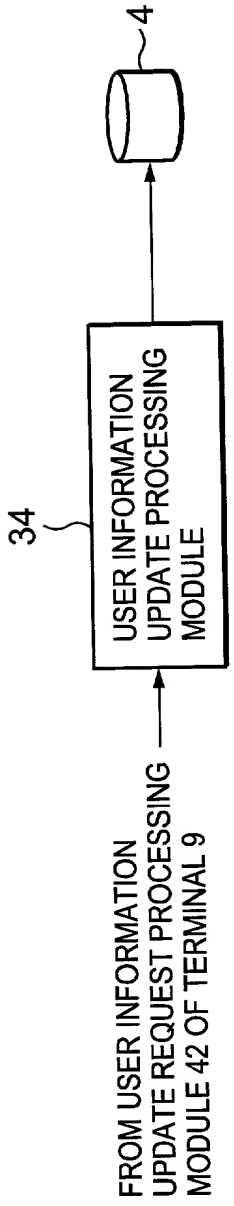

4
34
USER INFORMATION UPDATE PROCESSING MODULE
FROM USER INFORMATION UPDATE REQUEST PROCESSING MODULE 42 OF TERMINAL 9

FIG.9

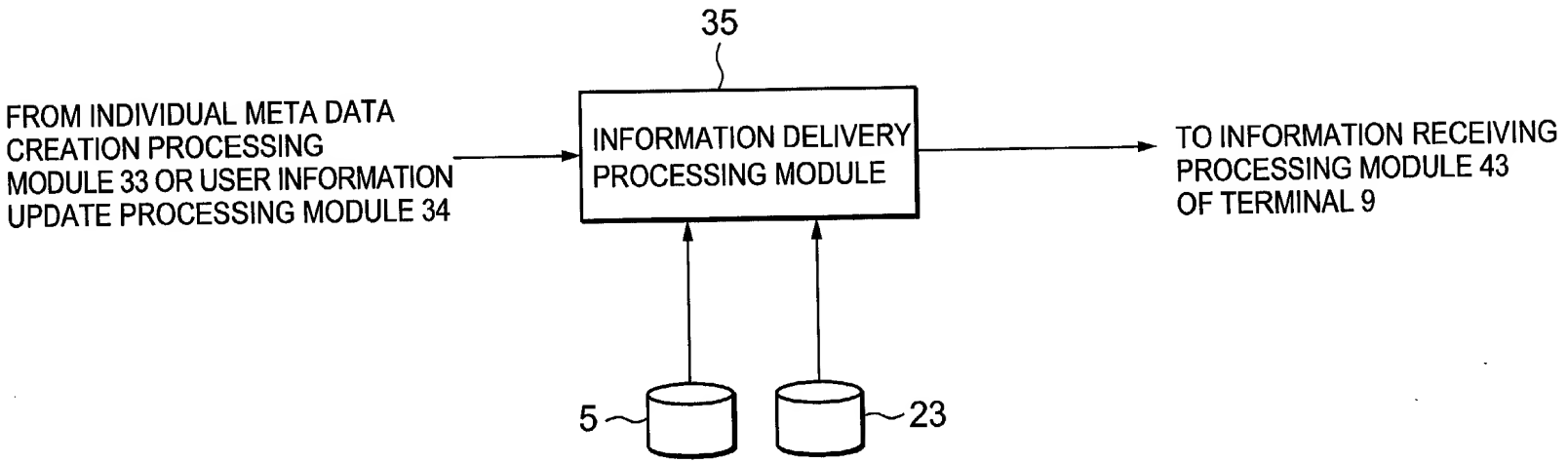

35
FROM INDIVIDUAL META DATA CREATION PROCESSING MODULE 33 OR USER INFORMATION UPDATE PROCESSING MODULE 34
INFORMATION DELIVERY PROCESSING MODULE
TO INFORMATION RECEIVING PROCESSING MODULE 43 OF TERMINAL 9
5
23

FIG.10

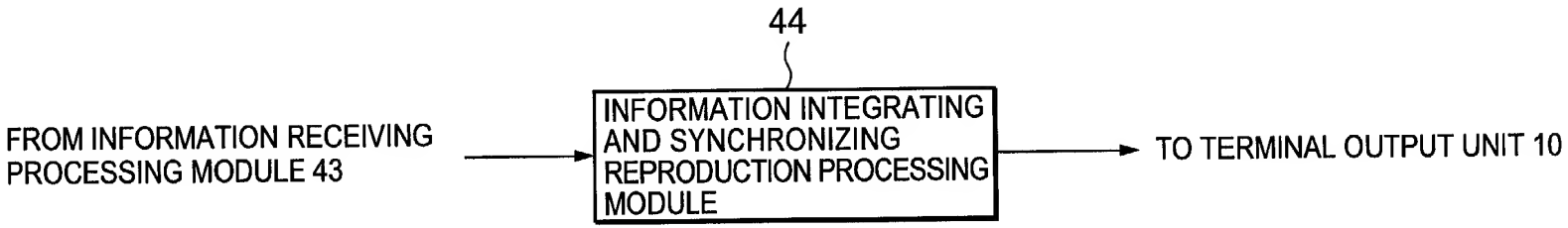

44
FROM INFORMATION RECEIVING PROCESSING MODULE 43
INFORMATION INTEGRATING AND SYNCHRONIZING REPRODUCTION PROCESSING MODULE
TO TERMINAL OUTPUT UNIT 10

FIG.11

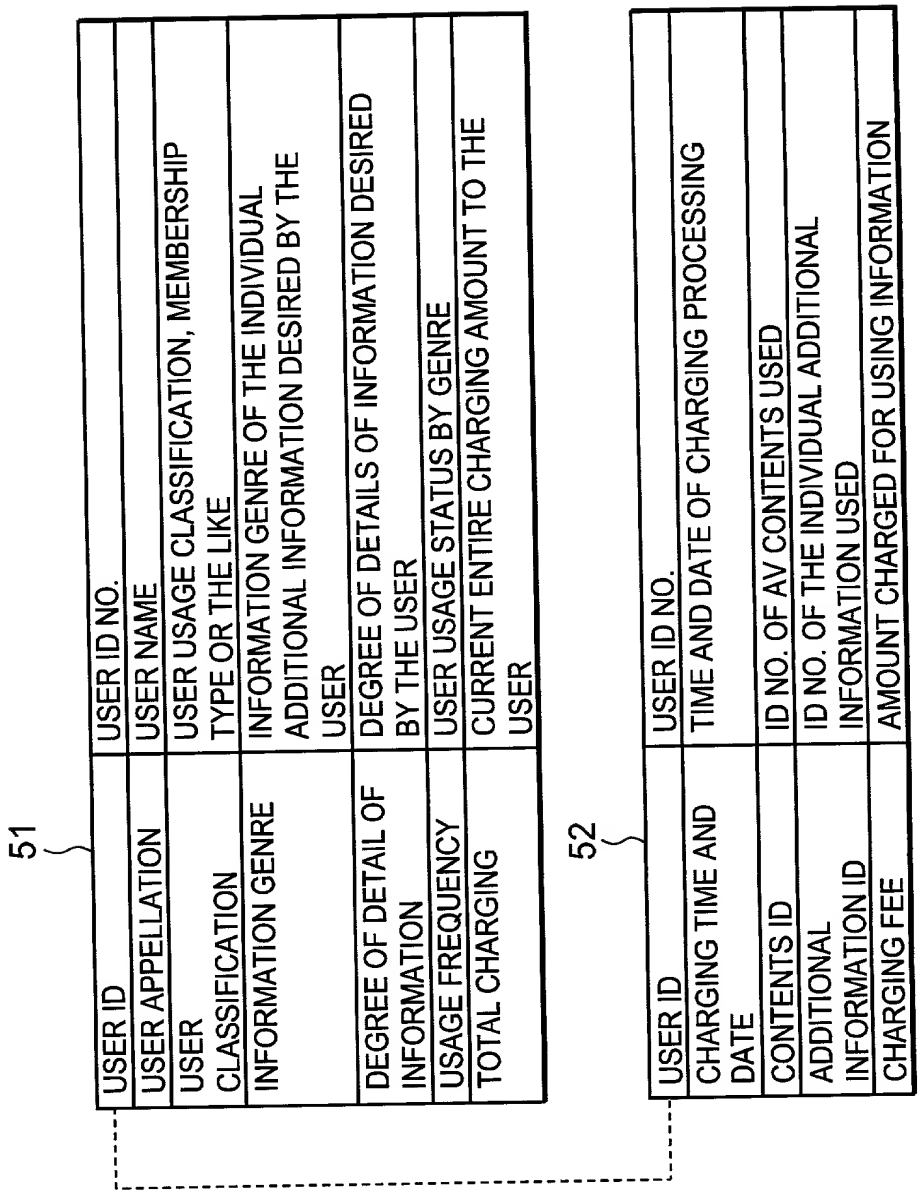

51
USER ID
USER ID NO.
USER APPELLATION
USER NAME
USER CLASSIFICATION
USER USAGE CLASSIFICATION, MEMBERSHIP TYPE OR THE LIKE
INFORMATION GENRE
INFORMATION GENRE OF THE INDIVIDUAL ADDITIONAL INFORMATION DESIRED BY THE USER
DEGREE OF DETAIL OF INFORMATION
DEGREE OF DETAILS OF INFORMATION DESIRED BY THE USER
USAGE FREQUENCY
USER USAGE STATUS BY GENRE
TOTAL CHARGING
CURRENT ENTIRE CHARGING AMOUNT TO THE USER
52
USER ID
USER ID NO.
CHARGING TIME AND DATE
TIME AND DATE OF CHARGING PROCESSING
CONTENTS ID
ID NO. OF AV CONTENTS USED
ADDITIONAL INFORMATION ID
ID NO. OF THE INDIVIDUAL ADDITIONAL INFORMATION USED
CHARGING FEE
AMOUNT CHARGED FOR USING INFORMATION

FIG.12

62

CONTENTS ID	ID NO. OF THE AV CONTENTS
SEGMENT NO.	NO. OF SEGMENT
SEGMENTATION	TIME REGION SPACE REGION
START POSITION	SEGMENT START POSITION
END POSITION	SEGMENT END POSITION
:	:

61

CONTENTS ID	ID NO. OF THE AV CONTENTS
CLASSIFICATION	CLASSIFICATION OF THE AV CONTENTS: 1-MOVIE, 2- MUSIC, 3 - NEWS
FORMAT	FORMAT OF THE AV CONTENTS: 1- PCM, 2-MPEG, 3- MP3 ...
REPRODUCTION TIME	REPRODUCTION TIME OF THE AV CONTENTS
REGISTRATION DATE	DATE OF AV CONTENTS INFORMATION REGISTRATION
LOCATION	STORAGE LOCATION, FILE BUS, URL OR THE LIKE
SIZE	DATA SIZE OF THE AV CONTENTS
TITLE	TITLE OF THE AV CONTENTS
LEADING ROLE PLAYER	LEADING ACTOR/ACTRESS OF THE AV CONTENTS
COPYRIGHT	COPYRIGHT INFORMATION OF THE AV CONTENTS
USAGE CLASSIFICATION	USAGE PERMITTED CLASS OF THE AV CONTENTS:1-EVERYONE, 2-MEMBERS ONLY
ADDITIONAL EXPLANATION	OTHER ADDITIONAL INFORMATION AND EXPLANATION REGARDING THE OVERALL AV CONTENTS
NUMBER OF SEGMENTS	NUMBER OF SPLITS OF SEGMENT INTERVALS OF THE AV CONTENTS
:	:

63

CONTENTS ID	
GENERAL-PURPOSE ADDITIONAL INFORMATION ID	
PART COVERED BY ADDITIONAL INFORMATION	PART COVERED BY ADDITIONAL INFORMATION: 1-ENTIRE SEGMENT, 2 - ENTIRE SCENE, 3 - OBJECT
NAME COVERED BY ADDITIONALLY INFORMATION	NAME OF THAT WHICH IS COVERED BY ADDITIONAL INFORMATION: SCENE OF XXX OR THE LIKE
SEGMENT NO.	SEGMENT NO. COVERED BY THE ADDITIONAL INFORMATION IN THE AV CONTENTS
SCENE NO.	SCENE NO. COVERED BY THE ADDITIONAL INFORMATION IN THE SEGMENT
OBJECT NO.	OBJECT NO. APPEARING IN THE SEGMENT
ADDITIONAL INFORMATION CLASSIFICATION	DATA FORMAT OF THE ADDITIONAL INFORMATION: 1-TEXT, 2-IMAGE DATA, 3-MUSIC DATA
ADDITIONAL INFORMATION	ADDITIONAL INFORMATION DATA REGARDING THE OBJECTS COVERED: TEXT, VIDEO, AUDIO DATA, LINK ID TO OTHER DATA

64

CONTENTS ID	AV CONTENTS ID NO.
INDIVIDUAL ADDITIONAL INFORMATION ID	ID NO. OF THE INDIVIDUAL ADDITIONAL INFORMATION IN THE AV CONTENTS
GENERAL-PURPOSE ADDITIONAL INFORMATION ID	ID NO. OF THE GENERAL-PURPOSE ADDITIONAL INFORMATION WITH WHICH THE INDIVIDUAL ADDITIONAL INFORMATION IS CONNECTED
INFORMATION GENRE	GENRE TO WHICH THE INDIVIDUAL ADDITIONAL INFORMATION BELONGS; MUSIC, MOVIE, CAR,FINANCE ...
INFORMATION SOURCE ID	ID NO. OF THE SOURCE OF INDIVIDUAL INFORMATION
INFORMATION REGISTRATION DATE	REGISTRATION DATE OF INDIVIDUAL INFORMATION
USER USAGE FEE	CHARGING THE USER WHEN INDIVIDUAL INFORMATION IS USED.
PROVIDER USAGE FEE	CHARGING THE PROVIDER WHEN INDIVIDUAL INFORMATION IS USED
CLASSIFICATION OF THE ADDITIONAL INFORMATION	DATA FORMAT OF THE ADDITIONAL INFORMATION: 1-TEXT, 2-IMAGE DATA, 3-MUSIC DATA
ADDITIONAL INFORMATION	INDIVIDUAL ADDITIONAL INFORMATION DATA REGARDING THE OBJECTS COVERED: TEXT,VIDEO, AUDIO DATA, AND ID LINK TO OTHER DATA

FIG.13

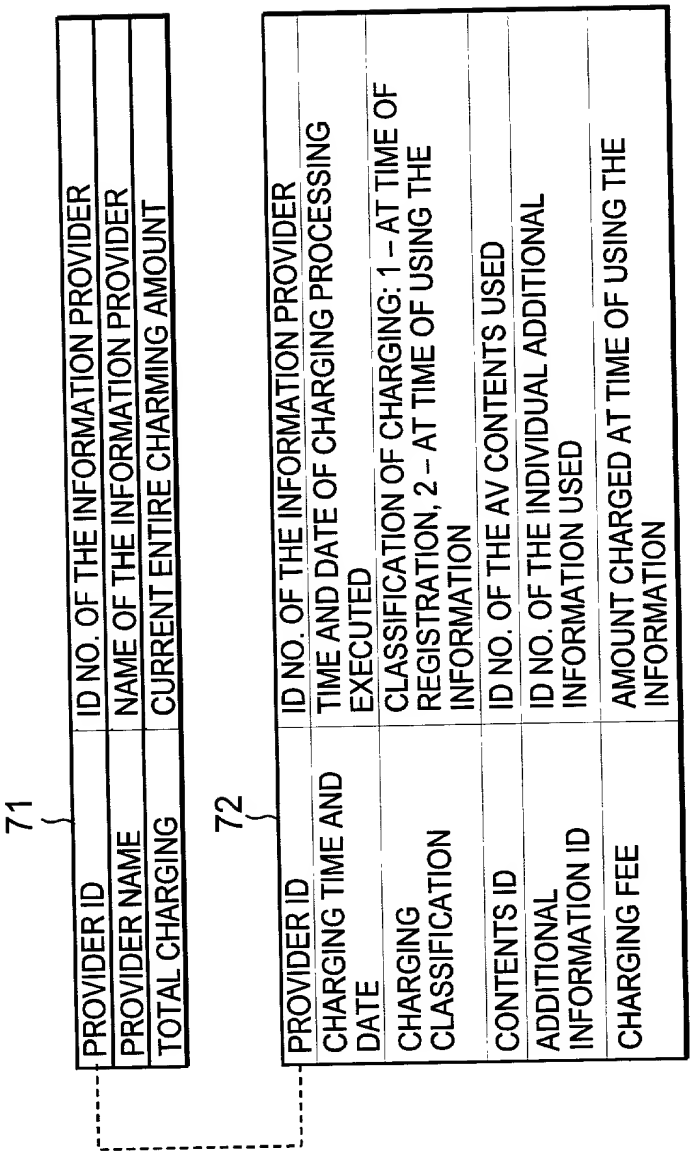

71
PROVIDER ID
ID NO. OF THE INFORMATION PROVIDER
PROVIDER NAME
NAME OF THE INFORMATION PROVIDER
TOTAL CHARGING
CURRENT ENTIRE CHARMING AMOUNT
72
PROVIDER ID
ID NO. OF THE INFORMATION PROVIDER
CHARGING TIME AND DATE
TIME AND DATE OF CHARGING PROCESSING EXECUTED
CHARGING CLASSIFICATION
CLASSIFICATION OF CHARGING: 1 – AT TIME OF REGISTRATION, 2 – AT TIME OF USING THE INFORMATION
CONTENTS ID
ID NO. OF THE AV CONTENTS USED
ADDITIONAL INFORMATION ID
ID NO. OF THE INDIVIDUAL ADDITIONAL INFORMATION USED
CHARGING FEE
AMOUNT CHARGED AT TIME OF USING THE INFORMATION

FIG.14

```
<CONTENTS>
 <CONTENTS ID=XXXX>
   <CONTENTS CLASSIFICATION> XXXX  </CONTENTS CLASSIFICATION>
   <FORMAT> XXXX </FORMAT>
   <REPRODUCTION TIME> XXXX </REPRODUCTION TIME>
            :
            :
   <SEGMENT NO. = 001>
    <SEGMENT CLASSIFICATION> XXX </SEGMENT CLASSIFICATION>
    <START POSITION> XXX </END POSITION>
            :
            :
   <GENERAL-PURPOSE ADDITIONAL  INFORMATION ID=XXX
                                          CLASSIFICATION= SCENE>
    <SCENE NO.= XXX> GENERAL-PURPOSE ADDITIONAL INFORMATION </SCENE>
    <INDIVIDUAL ADDITIONAL INFORMATION ID=XXX
                                       CLASSIFICATION=yyy>
        INDIVIDUAL ADDITIONAL INFORMATION DATA
    </INDIVIDUAL ADDITIONAL INFORMATION>
   </GENERAL-PURPOSE ADDITIONAL INFORMATION>
 </SEGMENT>
 </SEGMENT NO.=002>
            :
            :
 </SEGMENT>
            :
            :
</CONTENTS>
```

FIG.15

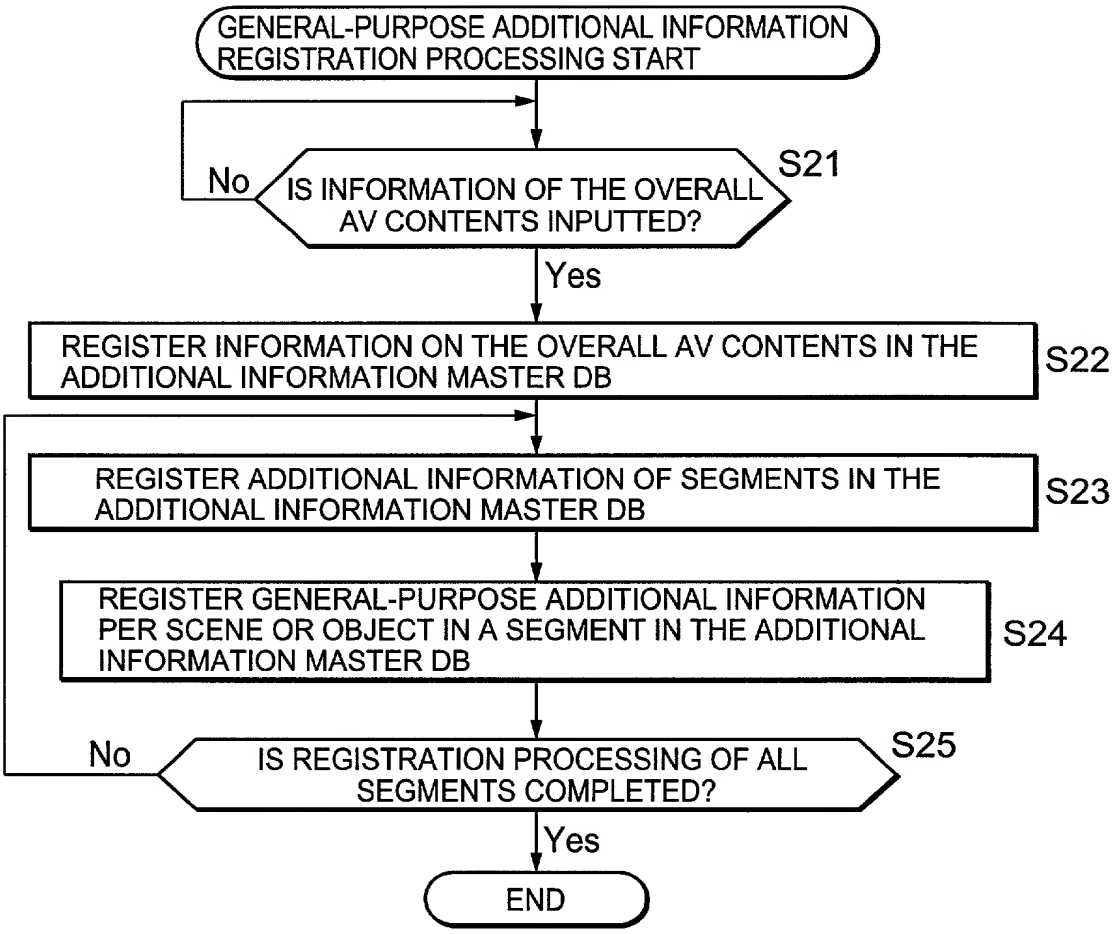

GENERAL-PURPOSE ADDITIONAL INFORMATION REGISTRATION PROCESSING START
No
IS INFORMATION OF THE OVERALL AV CONTENTS INPUTTED?
S21
Yes
REGISTER INFORMATION ON THE OVERALL AV CONTENTS IN THE ADDITIONAL INFORMATION MASTER DB
S22
REGISTER ADDITIONAL INFORMATION OF SEGMENTS IN THE ADDITIONAL INFORMATION MASTER DB
S23
REGISTER GENERAL-PURPOSE ADDITIONAL INFORMATION PER SCENE OR OBJECT IN A SEGMENT IN THE ADDITIONAL INFORMATION MASTER DB
S24
No
IS REGISTRATION PROCESSING OF ALL SEGMENTS COMPLETED?
S25
Yes
END

FIG.16

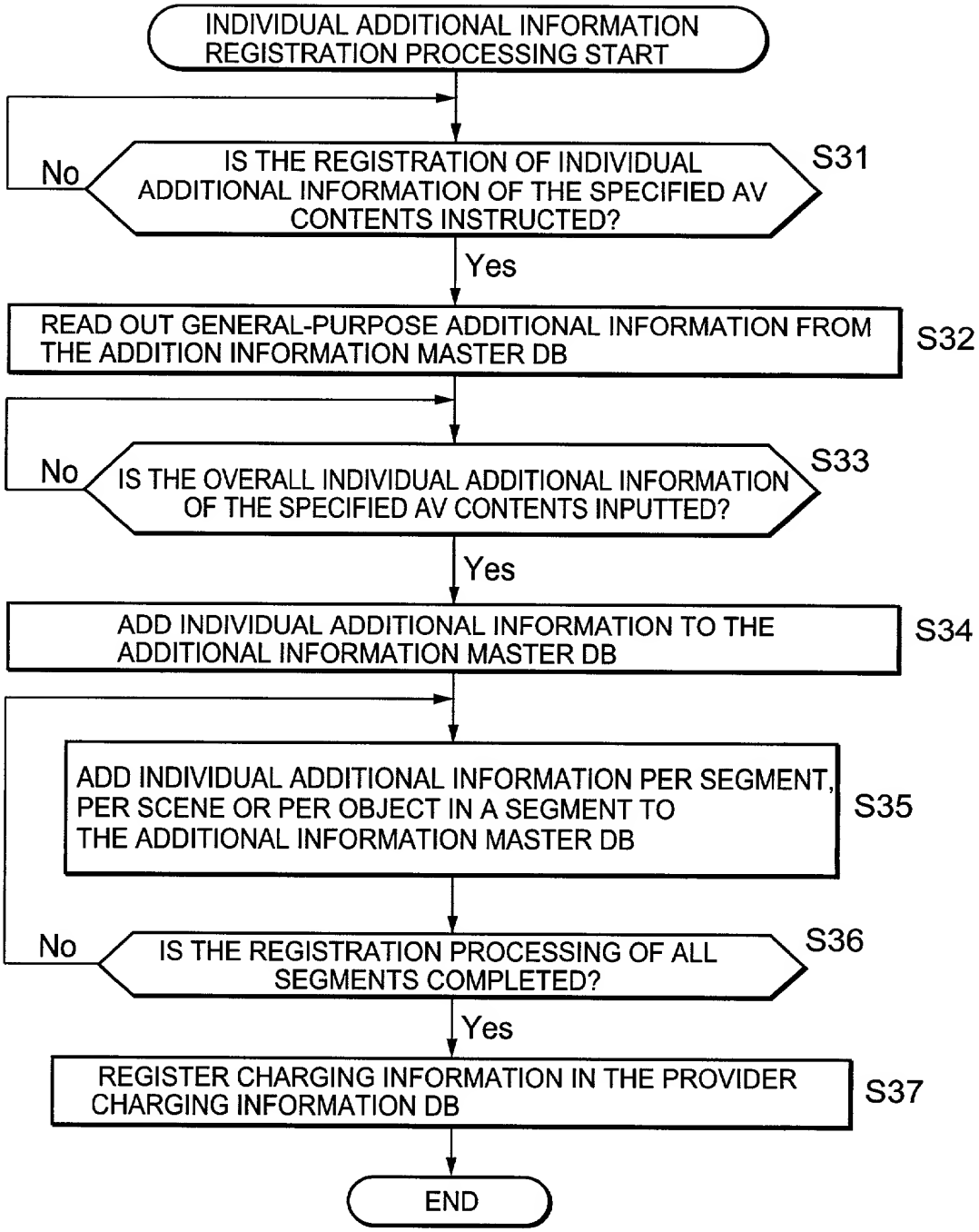

INDIVIDUAL ADDITIONAL INFORMATION REGISTRATION PROCESSING START
No
IS THE REGISTRATION OF INDIVIDUAL ADDITIONAL INFORMATION OF THE SPECIFIED AV CONTENTS INSTRUCTED?
S31
Yes
READ OUT GENERAL-PURPOSE ADDITIONAL INFORMATION FROM THE ADDITION INFORMATION MASTER DB
S32
No
IS THE OVERALL INDIVIDUAL ADDITIONAL INFORMATION OF THE SPECIFIED AV CONTENTS INPUTTED?
S33
Yes
ADD INDIVIDUAL ADDITIONAL INFORMATION TO THE ADDITIONAL INFORMATION MASTER DB
S34
ADD INDIVIDUAL ADDITIONAL INFORMATION PER SEGMENT, PER SCENE OR PER OBJECT IN A SEGMENT TO THE ADDITIONAL INFORMATION MASTER DB
S35
No
IS THE REGISTRATION PROCESSING OF ALL SEGMENTS COMPLETED?
S36
Yes
REGISTER CHARGING INFORMATION IN THE PROVIDER CHARGING INFORMATION DB
S37
END

FIG.17

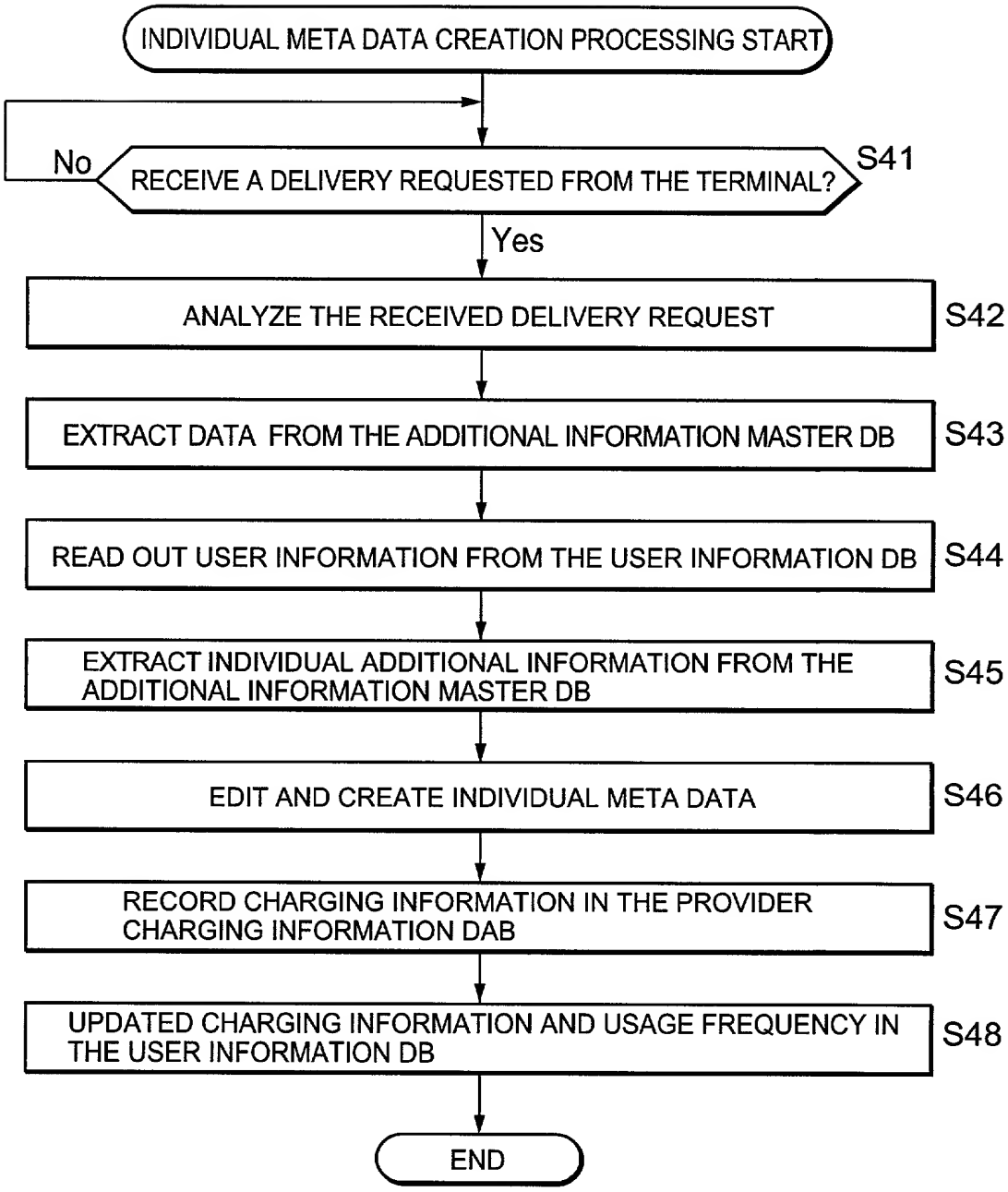

INDIVIDUAL META DATA CREATION PROCESSING START
No
RECEIVE A DELIVERY REQUESTED FROM THE TERMINAL?
S41
Yes
ANALYZE THE RECEIVED DELIVERY REQUEST
S42
EXTRACT DATA FROM THE ADDITIONAL INFORMATION MASTER DB
S43
READ OUT USER INFORMATION FROM THE USER INFORMATION DB
S44
EXTRACT INDIVIDUAL ADDITIONAL INFORMATION FROM THE ADDITIONAL INFORMATION MASTER DB
S45
EDIT AND CREATE INDIVIDUAL META DATA
S46
RECORD CHARGING INFORMATION IN THE PROVIDER CHARGING INFORMATION DAB
S47
UPDATED CHARGING INFORMATION AND USAGE FREQUENCY IN THE USER INFORMATION DB
S48
END

FIG.18

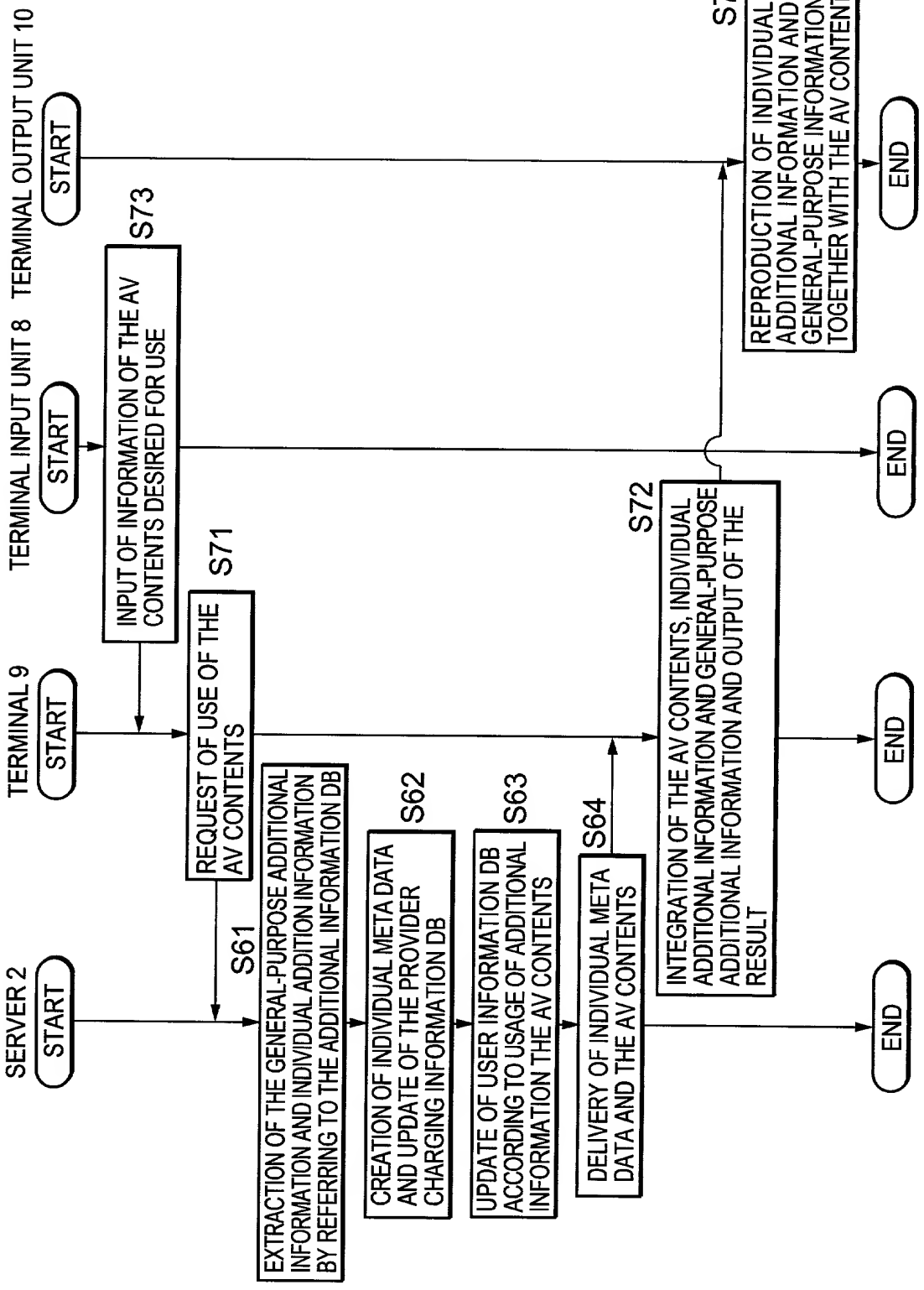

SERVER 2
START
TERMINAL 9
START
TERMINAL INPUT UNIT 8
START
TERMINAL OUTPUT UNIT 10
START
INPUT OF INFORMATION OF THE AV CONTENTS DESIRED FOR USE
S73
REQUEST OF USE OF THE AV CONTENTS
S71
S61
EXTRACTION OF THE GENERAL-PURPOSE ADDITIONAL INFORMATION AND INDIVIDUAL ADDITION INFORMATION BY REFERRING TO THE ADDITIONAL INFORMATION DB
CREATION OF INDIVIDUAL META DATA AND UPDATE OF THE PROVIDER CHARGING INFORMATION DB
S62
UPDATE OF USER INFORMATION DB ACCORDING TO USAGE OF ADDITIONAL INFORMATION THE AV CONTENTS
S63
DELIVERY OF INDIVIDUAL META DATA AND THE AV CONTENTS
S64
INTEGRATION OF THE AV CONTENTS, INDIVIDUAL ADDITIONAL INFORMATION AND GENERAL-PURPOSE ADDITIONAL INFORMATION AND OUTPUT OF THE RESULT
S72
REPRODUCTION OF INDIVIDUAL ADDITIONAL INFORMATION AND GENERAL-PURPOSE INFORMATION, TOGETHER WITH THE AV CONTENTS
S74
END
END
END
END

FIG.19

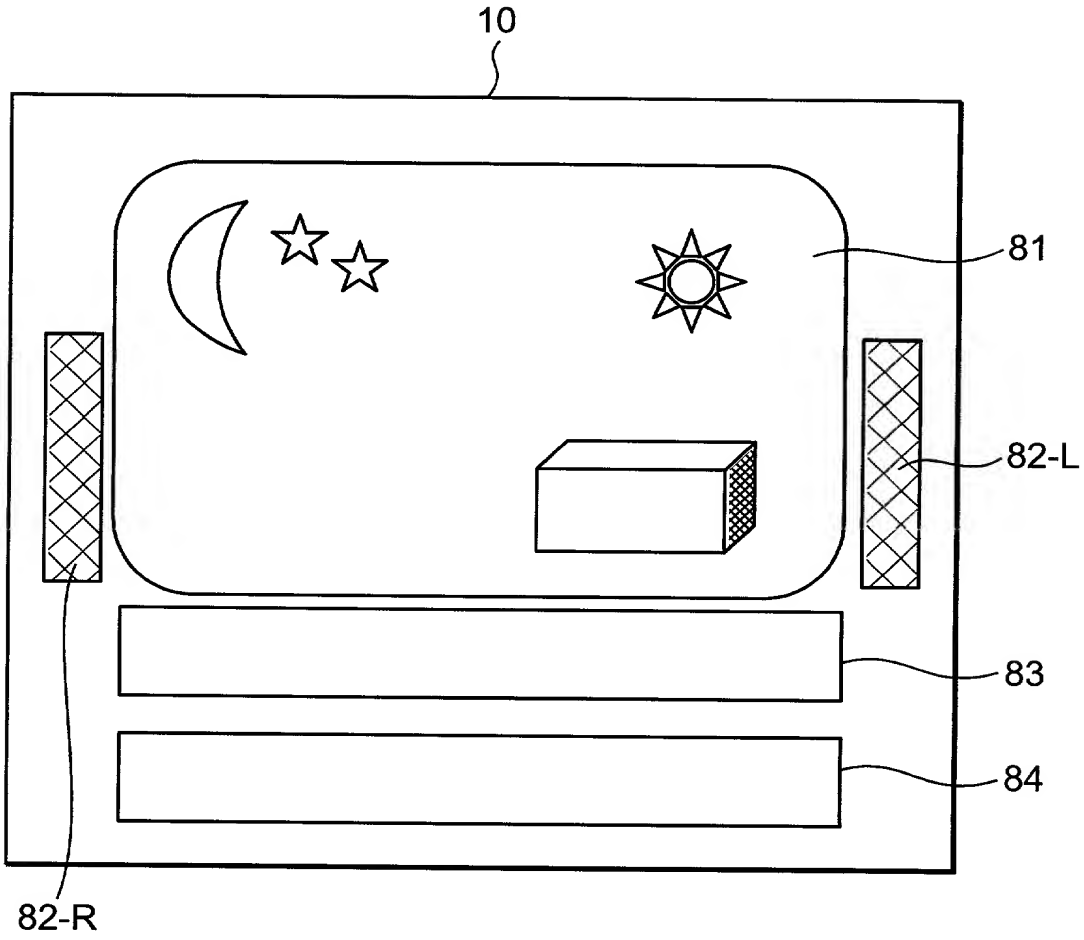


FIG.20

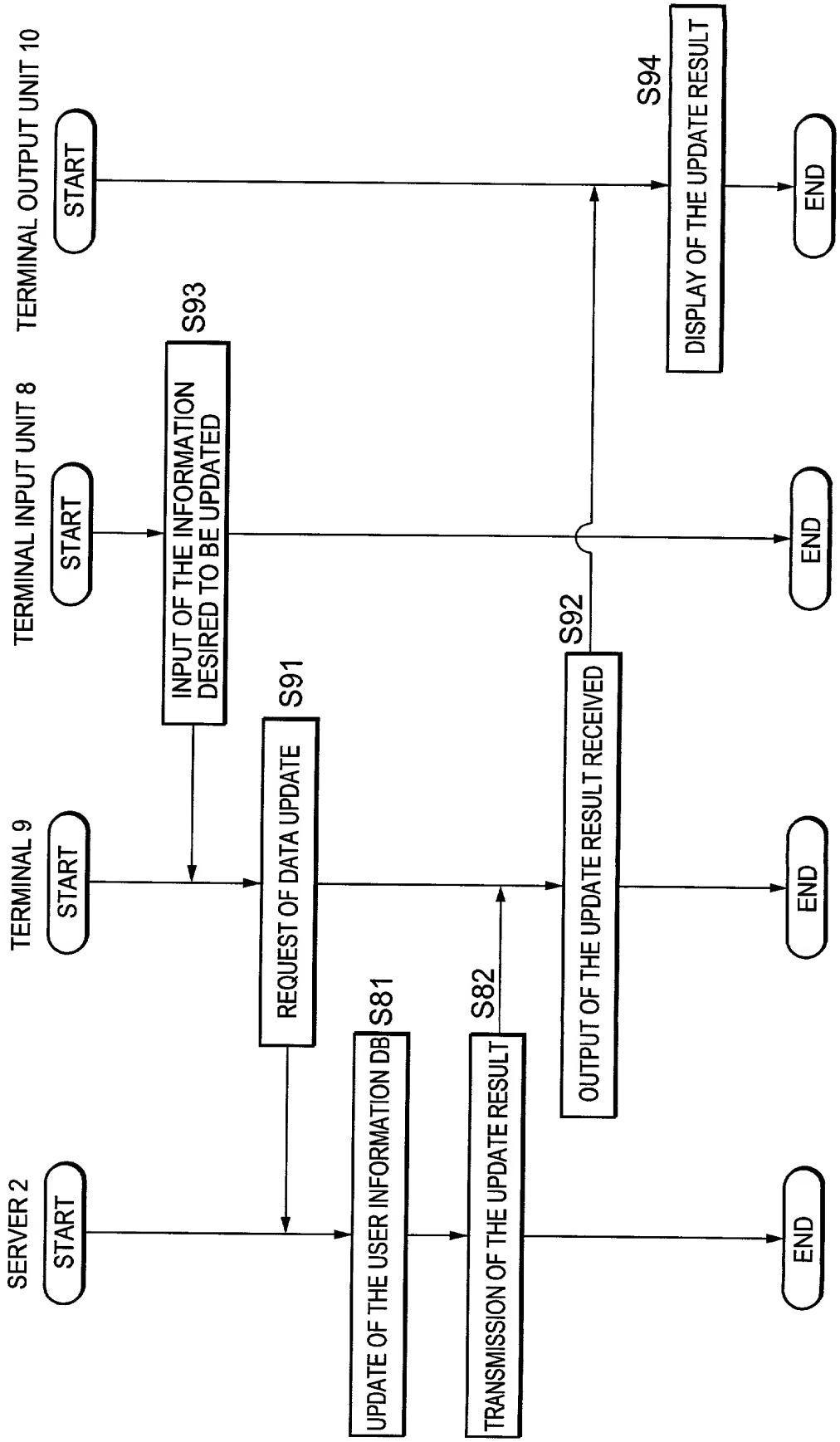
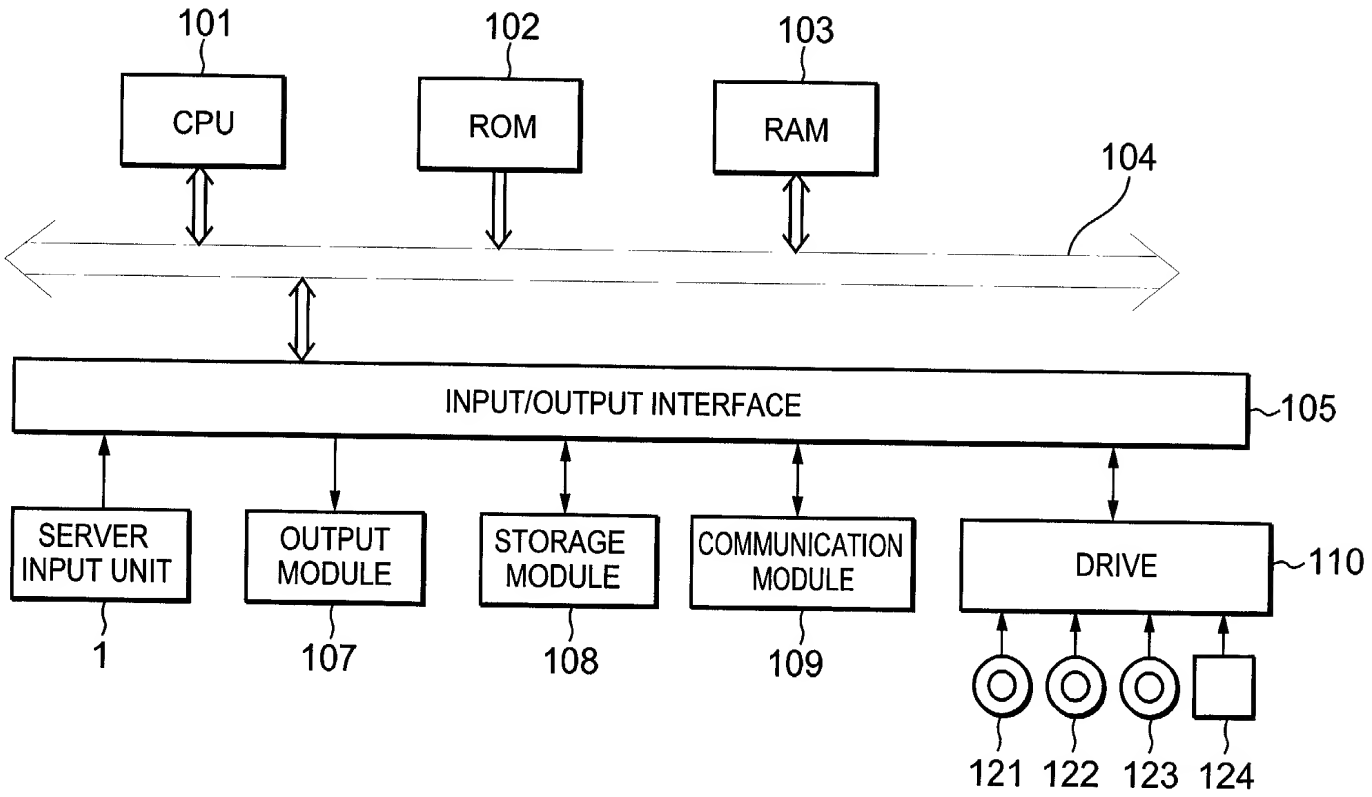

SERVER 2
START
TERMINAL 9
START
TERMINAL INPUT UNIT 8
START
TERMINAL OUTPUT UNIT 10
START
INPUT OF THE INFORMATION DESIRED TO BE UPDATED
S93
REQUEST OF DATA UPDATE
S91
UPDATE OF THE USER INFORMATION DB
S81
TRANSMISSION OF THE UPDATE RESULT
S82
OUTPUT OF THE UPDATE RESULT RECEIVED
S92
DISPLAY OF THE UPDATE RESULT
S94
END
END
END
END

FIG.21


101
CPU
102
ROM
103
RAM
104
INPUT/OUTPUT INTERFACE
105
SERVER INPUT UNIT
1
OUTPUT MODULE
107
STORAGE MODULE
108
COMMUNICATION MODULE
109
DRIVE
110
121
122
123
124